



**National Voluntary
Laboratory Accreditation Program**



SCOPE OF ACCREDITATION TO ISO/IEC 17025:1999

State of Ohio Metrology Laboratory
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CALIBRATION LABORATORIES

NVLAP LAB CODE 200420-0

NVLAP Code: 20/A01 ANSI/NCSL Z540-1-1994; Part 1 Compliant

DIMENSIONAL

NVLAP Code: 20/D13
 Surveying Rods and Tapes

<i>Range in inches</i>	<i>Best Uncertainty (±) in inches ^{note 1}</i>	<i>Remarks</i>
6 to 12	0.006	Rigid Rules, 72 inch
6 to 18	0.010	Rigid Rules, 72 inch
6 to 24	0.010	Rigid Rules, 72 inch
6 to 30	0.014	Rigid Rules, 72 inch
6 to 36	0.015	Rigid Rules, 72 inch
6 to 42	0.018	Rigid Rules, 72 inch
6 to 48	0.019	Rigid Rules, 72 inch
6 to 54	0.023	Rigid Rules, 72 inch
6 to 60	0.023	Rigid Rules, 72 inch
6 to 66	0.027	Rigid Rules, 72 inch
6 to 72	0.029	Rigid Rules, 72 inch
1 to 2	0.0061	Rigid Rules, 18 inch
1 to 3	0.0061	Rigid Rules, 18 inch
1 to 4	0.0061	Rigid Rules, 18 inch

2006-07-01 through 2007-06-30

Effective dates

Sally S. Bruce

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1 to 5	0.0061	Rigid Rules, 18 inch
1 to 6	0.0061	Rigid Rules, 18 inch
1 to 7	0.0061	Rigid Rules, 18 inch
1 to 8	0.0061	Rigid Rules, 18 inch
1 to 9	0.0061	Rigid Rules, 18 inch
1 to 10	0.0061	Rigid Rules, 18 inch
1 to 11	0.0062	Rigid Rules, 18 inch
1 to 12	0.0062	Rigid Rules, 18 inch
1 to 13	0.0062	Rigid Rules, 18 inch
1 to 14	0.010	Rigid Rules, 18 inch
1 to 15	0.010	Rigid Rules, 18 inch
1 to 16	0.010	Rigid Rules, 18 inch
1 to 17	0.010	Rigid Rules, 18 inch
1 to 18	0.010	Rigid Rules, 18 inch

<i>Range in ft</i>	<i>Best Uncertainty (±) in inches ^{note 1}</i>	<i>Remarks</i>
0 to 6	0.023	Tape to Bench
0 to 30	0.033	Tape to Bench
0 to 50	0.042	Tape to Bench
0 to 100	0.065	Tape to Bench
0 to 6	0.024	Tape to Tape
0 to 30	0.035	Tape to Tape
0 to 50	0.045	Tape to Tape
0 to 100	0.075	Tape to Tape

MECHANICAL

NVLAP Code: 20/M08
Mass

<i>Range</i>	<i>Best Uncertainty (±) ^{note 1}</i>	<i>Remarks</i>
1000 kg	7.6 g	Echelon II
500 kg	3.8 g	Echelon II
300 kg	2.5 g	Echelon II
200 kg	1.6 g	Echelon II

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100 kg	0.67 g	Echelon II
50 kg	0.032 g	Echelon II
30 kg	0.14 g	Echelon II
20 kg	0.12 g	Echelon II
10 kg	0.43 g	Echelon II
5 kg	1.2 mg	Echelon II
3 kg	0.67 mg	Echelon II
2 kg	0.64 mg	Echelon II
1 kg	0.42 mg	Echelon II
500 g	0.131 mg	Echelon II
300 g	0.089 mg	Echelon II
200 g	0.068 mg	Echelon II
100 g	0.050 mg	Echelon II
50 g	0.043 mg	Echelon II
30 g	0.042 mg	Echelon II
20 g	0.041 mg	Echelon II
10 g	0.030 mg	Echelon II
5 g	0.021 mg	Echelon II
3 g	0.020 mg	Echelon II
2 g	0.011 mg	Echelon II
1 g	0.006 mg	Echelon II
500 mg	0.0059 mg	Echelon II
300 mg	0.0057 mg	Echelon II
200 mg	0.0057 mg	Echelon II
100 mg	0.0057 mg	Echelon II
50 mg	0.0056 mg	Echelon II
30 mg	0.0045 mg	Echelon II
20 mg	0.0045 mg	Echelon II
10 mg	0.0046 mg	Echelon II
5 mg	0.0045 mg	Echelon II
3 mg	0.0045 mg	Echelon II
2 mg	0.0045 mg	Echelon II
1 mg	0.0046 mg	Echelon II
2500 lb	5.5 g	Echelon II

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1000 lb	2.8 g	Echelon II
500 lb	1.9 g	Echelon II
50 lb	0.11 g	Echelon II
25 lb	0.10 g	Echelon II
20 lb	0.10 g	Echelon II
10 lb	20 mg	Echelon II
5 lb	7 mg	Echelon II
2 lb	6.3 mg	Echelon II
1 lb	6.2 mg	Echelon II
0.5 lb	0.33 mg	Echelon II
0.3 lb	0.30 mg	Echelon II
0.2 lb	1.1 mg	Echelon II
0.1 lb	0.0092 mg	Echelon II
0.05 lb	0.0063 mg	Echelon II
0.03 lb	0.0060 mg	Echelon II
0.02 lb	0.0018 mg	Echelon II
0.01 lb	0.0014 mg	Echelon II
0.005 lb	0.0010 mg	Echelon II
0.003 lb	0.0009 mg	Echelon II
0.002 lb	0.0011 mg	Echelon II
0.001 lb	0.0008 mg	Echelon II
100 kg	14 g	Echelon III
500 kg	6.4 g	Echelon III
300 kg	4.3 g	Echelon III
200 kg	3.3 g	Echelon III
100 kg	2.7 g	Echelon III
50 kg	2.2 g	Echelon III
30 kg	2.2 g	Echelon III
20 kg	2.2 g	Echelon III
10 kg	2.2 g	Echelon III
5 kg	1.7 mg	Echelon III
3 kg	0.75 mg	Echelon III
2 kg	0.57 mg	Echelon III

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1 kg	0.37 mg	Echelon III
500 g	0.29 mg	Echelon III
300 g	0.20 mg	Echelon III
200 g	0.15 mg	Echelon III
100 g	0.11 mg	Echelon III
50 g	0.22 mg	Echelon III
30 g	0.09 mg	Echelon III
20 g	0.09 mg	Echelon III
10 g	0.07 mg	Echelon III
5 g	0.04 mg	Echelon III
3 g	0.04 mg	Echelon III
2 g	0.02 mg	Echelon III
1 g	0.02 mg	Echelon III
500 mg	0.0013 mg	Echelon III
300 mg	0.0013 mg	Echelon III
200 mg	0.0013 mg	Echelon III
100 mg	0.0013 mg	Echelon III
50 mg	0.0013 mg	Echelon III
30 mg	0.0013 mg	Echelon III
20 mg	0.0010 mg	Echelon III
10 mg	0.0010 mg	Echelon III
5 mg	0.0010 mg	Echelon III
3 mg	0.0010 mg	Echelon III
2 mg	0.0010 mg	Echelon III
1 mg	0.0010 mg	Echelon III
2500 lb	12 g	Echelon III
1000 lb	5.9 g	Echelon III
500 lb	4.0 g	Echelon III
50 lb	0.24 g	Echelon III
25 lb	0.22 g	Echelon III
20 lb	0.22 g	Echelon III
10 lb	40 mg	Echelon III
5 lb	16 mg	Echelon III
2 lb	14 mg	Echelon III

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1 lb	14 mg	Echelon III
0.5 lb	0.69 mg	Echelon III
0.3 lb	0.65 mg	Echelon III
0.2 lb	2.3 mg	Echelon III
0.1 lb	0.019 mg	Echelon III
0.05 lb	0.013 mg	Echelon III
0.03 lb	0.013 mg	Echelon III
0.02 lb	0.0036 mg	Echelon III
0.01 lb	0.0028 mg	Echelon III
0.005 lb	0.0021 mg	Echelon III
0.003 lb	0.0019 mg	Echelon III
0.002 lb	0.0018 mg	Echelon III
0.001 lb	0.0018 mg	Echelon III

NVLAP Code: 20/M12
Volume

Range	Best Uncertainty (\pm) in inches³ note 1	Remarks
200 ml	0.26	Gravimetric Method
1000 ml	0.35	Gravimetric Method
100 ml	0.27	Gravimetric Method
1 pint	0.035	Gravimetric Method
1 qt	0.054	Gravimetric Method
½ gal	0.067	Gravimetric Method
1 gal	0.11	Gravimetric Method
5 gal	0.55	Gravimetric Method
25 gal	7	Gravimetric Method
50 gal	13	Gravimetric Method
100 gal	24	Transfer Method
50 gal	13	Transfer Method
25 gal	8.2	Transfer Method
5 gal	0.69	Transfer Method

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1. Represents an expanded uncertainty using a coverage factor, $k = 2$, at an approximate level of confidence of 95 %.

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A handwritten signature in cursive script that reads 'Sally S. Bruce'.

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